

ABSTRACT OF THE DISCLOSURE

A methodology to automatically measure network parameters relating to wireless network environments is disclosed. First, if a server's telephone number is detected from power-on registration data stored in a storage device, then a connection with the server is attempted through a mobile station with a data service function using the server's telephone number. Thereafter, if there is test plan from the server after the connection is made, the network parameters is measured using another mobile station with a diagnostic monitor function based on the test plan data. The measured network parameters is then collected and parsed to obtain sets of measured network parameters, each set having a different kind of measured data; and the sets of measured network parameters are transmitted to the server using the mobile station with the data service function when there is a data transmission request from the server or it is time for data transmission.